WHAT IS CLAIMED IS:

1. A method for efficient utilization of transmission resources in a wireless network, comprising:

in response to at least unsuccessfully receiving a radio frame for a packet from a wireless link, requesting retransmission of the frame up to an allowed number of retransmissions; and

in response to at least unsuccessfully receiving the frame from the allowed number of retransmissions, generating a signal for transmission to a device transmitting the frame, the signal operable to prevent the device from transmitting a set of remaining frames for the packet.

2. The method of Claim 1, wherein the signal comprises a bitmap identifying the frame and identifying a disparate frame for retransmission.

3. The method of Claim 1, wherein the radio frame identifies the packet and the signal for transmission to the device transmitting the frame identifies the packet.

4. The method of Claim 1, further comprising:

determining a position of the frame in a set of related frames for the packet; and

determining the allowed number of retransmissions for the frame based on the position of the frame in the set of related frames.

5. The method of Claim 4, wherein the allowed number of retransmissions for the frame increases as the

position of the frame in the set of related frames increases.

6. The method of Claim 4, wherein the set of related frames comprises all frames for the packet.

7. The method of Claim 4, wherein the set of related frames comprises a set of successfully received frames for the packet.

8. The method of Claim 1, wherein the signal for transmission to the device transmitting the frame is operable to prevent the device from transmitting the set of remaining frames by causing the device to drop the set of remaining frames.

9. A system for efficient utilization of transmission resources in a wireless network, comprising:

means, in response to at least unsuccessfully receiving a radio frame for a packet from a wireless link, for requesting retransmission of the frame up to an allowed number of retransmissions; and

means, in response to at least unsuccessfully receiving the frame from the allowed number of retransmissions, for generating a signal for transmission to a device transmitting the frame, the signal operable to prevent the device from transmitting a set of remaining frames for the packet.

10. The system of Claim 9, wherein the signal comprises a bitmap identifying the frame and identifying a disparate frame for retransmission.

11. The system of Claim 9, wherein the radio frame identifies the packet and the signal for transmission to the device transmitting the frame identifies the packet.

12. The system of Claim 9, further comprising:

means for determining a position of the frame in a set of related frames for the packet; and

means for determining the allowed number of retransmissions for the frame based on the position of the frame in the set of related frames.

13. The system of Claim 12, wherein the allowed number of retransmissions for the frame increases as the position of the frame in the set of related frames increases.

14. The system of Claim 12, wherein the set of related frames comprises all frames for the packet.

15. The system of Claim 12, wherein the set of related frames comprises a set of successfully received frames for the packet.

16. The system of Claim 9, wherein the signal for transmission to the device transmitting the frame is operable to prevent the device from transmitting the set of remaining frames by causing the device to drop the set of remaining frames.

17. A system for efficient utilization of transmission resources in a wireless network, comprising:

logic encoded in media; and

the logic operable to request retransmission of an unsuccessfully received radio frame up to an allowed number of retransmissions and, in response to at least unsuccessfully receiving the frame from the allowed number of retransmissions, to generate a signal for transmission to a device transmitting the frame, the signal operable to prevent the device from transmitting a set of remaining frames for a packet to which the frame belongs.

18. The system of Claim 17, wherein the signal comprises a bitmap identifying the frame and identifying a disparate frame for retransmission.

19. The system of Claim 17, wherein the radio frame identifies the packet and the signal for transmission to the device transmitting the frame identifies the packet.

20. The system of Claim 17, the logic further operable to determine a position of the frame in a set of related frames for the packet and to determine the allowed number of retransmissions for the frame based on the position of the frame in the set of related frames.

21. The system of Claim 20, wherein the allowed number of retransmissions for the frame increases as the position of the frame in the set of related frames increases.

22. The system of Claim 20, wherein the set of related frames comprises all frames for the packet.

23. The system of Claim 20, wherein the set of related frames comprises a set of successfully received frames for the packet.

24. The system of Claim 17, wherein the signal for transmission to the device transmitting the frame is operable to prevent the device from transmitting the set of remaining frames by causing the device to drop the set of remaining frames.

25. A method for efficient utilization of transmission resources in a code division multiple access (CDMA) network, comprising:

in response to at least unsuccessfully receiving a radio frame for a packet from a wireless link of a CDMA network, determining a position of the radio frame in a set of related frames for the packet;

determining an allowed number of retransmissions for the frame based on the position of the frame in the set of related frames;

requesting retransmission of the radio frame up to the allowed number of retransmissions; and

in response to at least unsuccessfully receiving the frame from the allowed number of retransmissions, generating a signal for transmission to a device transmitting the frame operable to prevent the device from transmitting a set of remaining frames for the packet.

26. A network element for a wireless network, comprising:

logic encoded in media; and

the logic operable to drop a set of remaining frames for a packet identified by a receiving device as having a frame unsuccessfully received after an allowed number of retransmissions.

27. A signal propagated on a wireless medium, comprising:

an indication of radio frames requiring retransmission;

an indication of dropped radio frames; and

an identifier of a packet to which the dropped radio frames belong.